

What Is Claimed Is:

1. An editing system comprising:

reproducing means for reproducing original audio data recorded in randomly accessible recording media and outputting the reproduced audio data through reproduction buffers;

recording means for recording insert audio data supplied from the outside in said recording media through recording buffers; and

control means for controlling said reproducing means and said recording means so that said insert audio data is recorded in a location where said original audio data is recorded and for determining storing addresses of said recording buffers for buffering said insert audio data based on the difference between the addresses of said reproduction buffers and the addresses of said recording buffers at the identical time.

2. An editing system as claimed in claim 1, further comprising cross-fading means for cross-fading the original audio data reproduced from said reproduction buffers and said insert audio data.

3. An editing system comprising:

first storing means for temporarily storing audio data to be reproduced in the block form;

receiving means for receiving the input of audio data to be synthesized;

synthesizing means for synthesizing said reproduced audio data and said audio data received by said receiving means;

second storing means for temporarily storing the audio data synthesized by said synthesizing means in the block form;

reference signal generating means for generating a reference signal to supply the reference signal to said first storing means and said second storing means; and

calculating means for calculating the first address of the block of said audio data stored by said second storing means.

4. An editing system as claimed in claim 3, wherein said calculating means operates said first address using the difference between the addresses of said first storing means and said second storing means corresponding to said reference signal generated by said reference signal generating means.

5. An editing system as claimed in claim 3, wherein said reference signal generating means generates said reference signal at every interval of one frame of a video signal.

6. An editing method comprising:

a first storing step of temporarily storing audio data to be reproduced in the block form;

a receiving step of receiving the input of audio data to be synthesized;

a synthesizing step of synthesizing said reproduced audio data and said audio data received in said receiving step;

a second storing step of temporarily storing the audio data synthesized in said synthesizing step in the block form;

a reference signal generating step of generating a reference signal to supply the reference signal in said first and second storing steps; and

a calculating step of calculating the first address of the block of said audio data stored in said second storing step.

7. A distribution medium for providing a program which controls an editing system to perform a process comprising:

a first storing step for temporarily storing the audio data to be reproduced in the block form;

a receiving step of receiving the input of audio data to be synthesized;

a synthesizing step of synthesizing said reproduced audio data and said audio data received in said receiving step;

a second storing step of temporarily storing the audio data synthesized in said synthesizing step in the block form;

a reference signal generating step of generating a reference signal to supply the reference signal in said first and second storing steps; and

a calculating step of calculating the first address of the block of said audio data stored in said second storing step.

8. An editing system comprising:

a plurality of first storing means for temporarily storing the audio data to be reproduced in the block form;

a plurality of second storing means for temporarily storing the reproduced audio data in the block form;

distributing means for distributing any of a plurality of said audio data reproduced by a plurality of said first storing means to any of a plurality of said second storing means;

reference signal generating means for generating a reference signal to supply the reference signal to said first and second storing means;

calculating means for calculating the first address of the block of said audio data stored by said second storing means.

9. An editing system as claimed in claim 8, further comprising synthesizing means for synthesizing any of a plurality of said audio data reproduced by a plurality of said first storing means and outputting the synthesized data to said distributing means.

10. An editing method comprising:

a plurality of first storing steps of temporarily storing the audio data to be reproduced in the block form;

a plurality of second storing steps of temporarily storing the reproduced audio data in the block form;

a distributing step of distributing any of a plurality of said audio data reproduced in a plurality of said first storing steps to any of a plurality of said second storing steps;

a reference signal generating step of generating a reference signal to supply the reference signal to said first and second storing steps; and

a calculating step of calculating the first address of the block of said audio data stored in said second storing steps.

11. A distribution medium for providing a program which controls an editing system to perform a process comprising:

a plurality of first storing steps for temporarily storing the audio data to be reproduced in the block form;

a plurality of second storing steps for temporarily storing the reproduced audio data in the block form;

a distributing step of distributing any of a plurality of said audio data reproduced in a plurality of said first storing steps to any of a plurality of said second storing steps;

a reference signal generating step of generating a reference signal to supply the reference signal to said first and second storing steps; and

a calculating step of calculating the first address of the block of said audio data stored in said second storing steps.

12. An editing system comprising:

first storing means for temporarily storing audio data to be reproduced in the block form;

second storing means for temporarily storing the synthesized audio data in the block form;

reference signal generating means for generating a reference signal to supply the reference signal to said first storing means and said second storing means; and

calculating means for calculating the first address of the block of said audio data stored by said second storing means; and

detecting means for detecting the first phase of the block of said audio data stored by said second storing means.

13. An editing system as claimed in claim 12, further comprising recording means for the first phase of the block of said audio data by said detecting means.

14. An editing system as claimed in claim 13, wherein said reference signal generating means generates a reference signal whenever one frame of video data corresponding to said audio data is reproduced.

15. An editing system as claimed in claim 14, wherein said phase is information on the amount of said audio data corresponding to one frame of said video data.

16. An editing method comprising:

first storing step for temporarily storing the audio data to be reproduced in the block form;

second storing step for temporarily storing the synthesized audio data in the block form;

a reference signal generating step of generating a reference signal to supply the reference signal to said first and second storing steps;

a calculating step of calculating the first address of the block of said audio data stored in said second storing step; and

a detecting step of detecting the first phase of the block of said audio data stored in said second storing step.

17. A distribution medium for providing a program which controls an editing system to perform a process comprising:

first storing step for temporarily storing the audio data to be reproduced in the block form;

second storing step for temporarily storing the synthesized audio data in the block form;

a reference signal generating step of generating a reference signal to supply the reference signal to said first and second storing steps;

a calculating step of calculating the first address of the block of said audio data stored in said second storing step; and

a detecting step of detecting the first phase of the block of said audio data stored in said second storing step.

18. An editing system comprising:

storing means for storing said audio data to be reproduced;

synthesizing means for synthesizing a plurality of channels of said audio data;

changing means for changing the reproduction speed of said audio data; and

supplying means for supplying the audio data synthesized by said synthesizing means and the audio data whose reproduction speed is changed by said changing means to arbitrary output channels.

19. An editing system as claimed in claim 18, wherein said changing means changes the reproduction speed of said audio data without changing the pitch.

20. An editing method comprising:

a storing step of storing said audio data to be reproduced;

a synthesizing step of synthesizing said audio data of a plurality of channels;

a changing step of changing the reproduction speed of said audio data; and

a supplying step of supplying the audio data synthesized in said synthesizing step and the audio data whose reproduction speed is changed in said changing step to



arbitrary output channels.

21. A distribution medium for providing a program which controls an editing system to perform a process comprising:

a storing step of storing said audio data to be reproduced;

a synthesizing step of synthesizing said audio data of a plurality of channels;

a changing step of changing the reproduction speed of said audio data; and

a supplying step of supplying the audio data synthesized in said synthesizing step and the audio data whose reproduction speed is changed in said changing step to arbitrary output channels.